

June 3, 1992

Superfund Records Center

SITE: K.J. QUINN

BREAK: 1.3

OTHER: 538434

Mr. Don Smith  
State Coordinator  
U. S. Environmental Protection Agency  
Region I  
90 Canal Street  
Boston, MA 02203-2211

Re: K.J. Quinn & Co., Seabrook Facility: Response to  
TRC Companies, Inc. Site Inspection Final Report

Dear Mr. Smith:

This letter is in response to the November 15, 1991 Screening Site Inspection Final Report (the "Report") prepared by TRC Companies, Inc. ("TRC") for the U.S. Environmental Protection Agency ("EPA") concerning the facility of K.J. Quinn & Co., Inc. ("Quinn") in Seabrook, New Hampshire. The Report, replete with errors, gives the reader the impression that the Seabrook facility is plagued with multiple, serious, and ever-increasing contamination problems, when, in fact, the opposite is true. The release of certain substances, which occurred over ten years ago in a limited area at the Quinn facility, has been remediated.

The Report ignores the remediation that Quinn has conducted, the active supervision of that remediation by the New Hampshire Department of Environmental Services ("NHDES"), and the data in NHDES files demonstrating both that supervision and the success of the remediation. As a result of Quinn's effective and state-overseen remediation program, little or no contamination exists in the area bordering the area of the release; and no contamination is present in the monitoring wells beyond that bordering area. This conclusion is supported by the monitoring that Quinn has conducted and maintained up to the present time. The monitoring data is on file with NHDES, and it is unfortunate that TRC either did not review those files or ignored their contents. It is equally unfortunate that TRC declined to review its factual data with Quinn personnel, who could have pointed out the factual errors in the Report.

To correct the errors in the Report and the misimpressions it creates, we have prepared the following set of responses, which

**K. J. QUINN & CO., INC.**

COATING, ADHESIVE AND POLYMER SPECIALISTS/SINCE 1880

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categorizes and addresses the errors. A plan showing the site is enclosed as Appendix A.

**A. Errors regarding direction of groundwater flow and groundwater discharge:**

- (1) On page 10, ¶1, the Report incorrectly states that the direction of groundwater flow is unknown. The direction of ground water flow is known and has been documented with data submitted to NHDES. Ground water flows in an easterly direction.
- (2) On page 12, ¶1, line 1, the Report's description of the Seabrook facility's surface water runoff is misleading. TRC states that "[t]he majority of surface water most likely drains into Cains Brook through the storm water grates." That statement leads to the inference that surface runoff from the remediation area drains into Cains Brook, when, in fact, only drainage from the administration building discharges through storm grates into Cains Brook. Cains Brook is upgradient of the remediation area and thus surface water from the remediation site would not be expected to drain into the brook. See Appendix A.
- (3) At page 22, ¶1, line 2, the Report's suggestion that certain water supply wells are at risk of being contaminated by ground water flowing from the remediation site is unsupported. Neither of the referenced wells, Salisbury Wells #5 and #6, is downgradient of the remediation site; groundwater flows in an easterly direction from the Quinn facility and the wells are located to the south of the facility.

In addition, the most recent monitoring results show no contamination at monitoring wells beyond the immediate area of the remediation site. See Appendix B. A monitoring well located between the site and Salisbury's water wells #5 and #6 (MV-16) has tested free of VOCs since January 30, 1985. See Appendix B.

- (4) On page 22, ¶1, line 3, the Report's suggestion that "six endangered or threatened species and federally regulated wetlands" are potentially at risk from contaminant migration from the Quinn facility is unfounded. TRC attributes such risk to the facts that Quinn's surface water drains northeasterly into Cains Brook (the wetland) and that the six endangered or threatened species inhabit the area along the site's fifteen-mile surface water pathway.

As discussed above, the surface water flowing through the storm drains that discharge to the Brook is largely surface runoff from the premises of Quinn's administration buildings. This discharge is subject to the National Pollutant Discharge Elimination System (NPDES) regulations and is monitored to operate within its NPDES permit limits.

The results of toxicity testing of the surface water from the Quinn facility indicate low (or below detection) levels of contamination. Quinn has conducted quarterly acute toxicity tests since March 1988 and quarterly chronic toxicity tests since November 1990. See Appendix C. Of 18 acute toxicity tests conducted, 12 showed no toxicity. Of the four that showed toxicity, two of the results were highly questionable due to high toxicity in the dilution of water and the other two were the result of copper toxicity in a discharge no longer related to Quinn processes and subject to a separate NPDES permit held by another entity.

Five chronic and acute toxicity tests have been completed since November 1990. All chronic and acute toxicities were negative except the last one, which was invalidated by NHDES due to the lab's failure to provide sufficient dilutions.

**B. Misinformation and incomplete data regarding results of monitoring data from previous studies:**

- (1) On page 12, ¶4, line 3, the Report incorrectly states that analytical data from previous studies collected by TRC were limited to VOC analysis. Acid/base/neutral analysis was conducted in 1983 and the results were submitted to NHDES. This data, which showed no contamination, was included with the report by Roy F. Weston, Inc., which was referred to by TRC and was evidently available to TRC.
- (2) On page 15, ¶3, line 3, the Report inaccurately characterizes levels of certain contaminants as being consistently high. Since March of 1988 the level of 1,1,1-trichloroethane has only exceeded the MCL one time out of 14 tests conducted, and tetrahydrofuran has not been detected since May 1990. See Appendix B.

- (3) On page 17, ¶1, line 5, the Report incorrectly states that data for a certain time period were not located. The data referred to were not requested by TRC. The data supporting the graphs are and have been on file at the Quinn facility.
- (4) On page 17, ¶1, line 3, the Report's comment about the increase of a number of VOCs is misleading. The graphs referred to by TRC, prepared by Quinn, provide an overview of contamination for all the contaminants for the time period from November 1983 to March 1990. See Appendix D. TRC based its conclusion not on the full time period shown by the graphs, but on a shorter time frame, November 1989 to May 1990. As a result, TRC's conclusion is faulty and misleading.

For example, although it is true that there was an increase in THF levels at R1 between 1989 and 1990, as previously mentioned THF has not been detected in the well since May 1990. See Appendix E.

- (5) On page 17, ¶1, line 9, the Report incorrectly states that 10 of 17 VOCs were detected at concentrations in excess of 1 mg/l. A review of the data referred to by TRC shows that one contaminant, tetrahydrofuran, had been detected at 1 mg/l during one analysis during a six-month period (November 1989 to May 1990). No analysis available to Quinn or cited by TRC showed that any of the contaminants exceeded 1 mg/l during the referenced time frame.
- (6) On page 17, ¶3, line 2, the Report inaccurately states that MW-11 consistently contained high levels of contaminants. Only one of five analyses found in the appendix of the TRC report showed contaminants present in MW-11; this is not indicative of consistently high levels.
- (7) On page 19, line 1, the Report inaccurately states that THF and MEK exceed federally established MCLs. There are no federally established MCLs for these substances.
- (8) On page 22, line 1, the Report's statement that four contaminants regularly exceed federal MCLs in recovery well R-1 is misleading, since it implies that those levels are problematical. The following information from Appendix B puts into perspective the detection levels of the four contaminants referred to by TRC:

(a) In 121 samples taken at the referenced recovery well, tetrachloroethylene has been detected only three times, and two of those results were below or at detection level. Those results indicate that tetrachloroethylene is not a problem contaminant at the site.

(b) 1,1-dichloroethylene has not been detected above the MCL since November of 1987. Since that time, it has been detected only once and, even then, at a level below accurate detection levels.

(c) 1,1,1-trichloroethane last exceeded the MCL in April of 1990, and prior to that time, it had exceeded the MCL only once, in March of 1988.

(d) 1,2-dichloroethane was detected in August of 1984 but has not been detected since then.

The data simply does not support TRC's conclusion that these four contaminants regularly exceed federal MCLs.

**C. Errors regarding TRC's site testing:**

- (1) On page 20, ¶¶2-3, the Report incorrectly implies an association between TRC's HNu results and site contamination. The TRC HNu results are not reliable since they were inconsistent with the results of both TRC's own OVA testing and Quinn's testing.

Quinn personnel conducted analysis at the locations mentioned in the Report on the same day that TRC performed site monitoring, and Quinn found no trace of contaminants. Additionally, Environmental Scientists Engineering, an independent environmental firm retained by Quinn, conducted HNu testing of the same locations in November, four months later, and again found no trace of contamination.

It is our understanding that the OVA (organic volatile analyzer) detects and registers the presence of the chemicals of concern in the atmosphere. This did not occur; although TRC conducted both HNu and OVA testing at the same locations, the HNu triggered readings but the OVA did not.

These inconsistencies suggest that some phenomenon other than contamination from the Quinn facility caused TRC's HNu readings.

- (2) On page 20, ¶3, line 1, the Report incorrectly states that the second HNu reading occurred over a storm drain. The reading was actually registered over a closed man-hole (NPDES sampling location 004), not a storm drain.

**D. Errors regarding substances generated, used or stored by Quinn at the Seabrook facility:**

- (1) On page 21, ¶4, line 4, TRC incorrectly implies that Quinn bears some responsibility for the contamination of a water supply well with trichloroethylene. Quinn has never used trichloroethylene.
- (2) On page 20, line 2, the Report's discussion of manganese concentration levels incorrectly suggests that Quinn is in some way associated with the generation of that substance. Manganese is a naturally occurring substance in the groundwater of Salisbury, as evidenced by its high concentration levels in all of Salisbury's water supply wells.
- (3) On page 7, ¶2, line 1, TRC states that Quinn manufactures liquid phase urethane elastomers. Quinn produces liquid phase urethanes.
- (4) On page 7, ¶4, line 4, TRC states that Quinn reported use of the chemical ethyl alcohol. Quinn reported use of ethyl acetate, not ethyl alcohol.

**E. Errors regarding proximity of other companies to Quinn's Seabrook facility:**

- (1) On page 6, Table 1 (a map showing all facilities which handle hazardous materials within a one mile radius of the Quinn facility), the Report failed to identify Tower Press, Salisbury Auto Salvage, and the Dexter Corp. (a RCRA facility), which are facilities that handle hazardous materials and are within one-mile of the Quinn facility.

Of particular interest is Tower Press, formerly the House of White Birches, a printing company that would have used inks and solvents, which is located adjacent to Salisbury's Well #1.

**F. Errors regarding disposal at the remediation site:**

- (1) On page 8, ¶1, line 7, the Report's discussion of open-topped drums that were found in the pit is misleading. The drums that were found open in the remediation site contained non-hazardous talc and non-hazardous solid TPU (thermal plastic urethane) materials. According to personnel present at the removal of the containers, no drums containing liquid wastes were found without closed covers. It was during this removal that two of the drums were punctured by a forklift and seeped their contents into the ground, thereby requiring subsequent remediation.
- (2) On page 21, ¶3, the Report falsely implies that only a portion of the drums placed in the remediation area were removed. In fact, all the drums were removed under the supervision of NHDES, and less than forty-five of the approximately 140 drums removed contained hazardous material.

**G. Errors regarding the Town of Salisbury production wells:**

- (1) On page 19, ¶2, the Report's implication that contamination of Salisbury production wells was caused by ground water flowing from the remediation site is unsupported. The available data does not support the implication that the source of the contamination found at the Salisbury production wells is the remediation site. As explained above, the origin of certain contaminants in the Salisbury wells has not been established. There must have been other sources since contaminants not associated with the remediation site were detected at the wells. These compounds included trichloroethylene, 1,1,2-trichloroethylene and tetrachloroethylene.
- (2) On page 8, ¶2, line 3, the Report's partial information regarding sampling data and contaminants detected at the wells is misleading. The data referred to by TRC is from 1983. Well sampling data from as early as June 29, 1979 for Well #1 show contamination of 1,1,2-trichloroethylene and tetrachloroethylene, contaminants not associated with the Quinn property or Quinn operations. Furthermore, contamination of Well #1 with 1,1,1-trichloroethane

and tetrahydrofuran (THF) was found only six months after drummed solvents were disposed of at the site. Based on site hydro-geologic conditions, it is highly improbable that the constituents of concern identified in well #1 would have migrated the distance between the Quinn property and Well #1 (approximately 1200 feet) in such a short period of time.

- (3) On page 10, ¶2, line 13, the Report states that one of the Salisbury wells was closed in 1983 due to chemical contamination suspected to have leached from the Quinn facility. In fact, according to an employee of the Salisbury water company, the referenced well (Well #1) was closed due to high iron and manganese content.

**H. Errors regarding statements by Quinn personnel:**

- (1) On page 5, ¶1, line 6, the Report contains misinformation regarding the Quinn recovery well. The accurate information that Quinn employee Bryant Winterholer gave TRC was that the well was originally installed to strip water at the rate of 25 gpm but only 7 gpm could be pumped from the well. Mr. Winterholer did not state that the rate had to be 25 gpm for the stripper to work effectively. In fact, the system was designed to handle up to 40 gpm, but water would flow from the well only at 20 gpm when it first began flowing. Roy F. Weston, Inc. advised the state of this flow rate in connection with Quinn's application for an NPDES permit to cover the discharge of the water from the stripper.

As indicated by the above comments, TRC's Report is rife with errors and did not include recent data regarding Quinn's site remediation. It is not surprising, therefore, that TRC's conclusion concerning the condition of Quinn's facility is incorrect. Like its conclusion, TRC's recommendation of further investigation is unfounded because it is based on inadequate data.

In conjunction with the State of New Hampshire, Quinn has successfully remediated its facility, and contamination levels




June 3, 1992  
Page 9

are well below MCLs. From beginning to end, each step of this successful remediation has been evaluated and approved by the New Hampshire Department of Environmental Services.

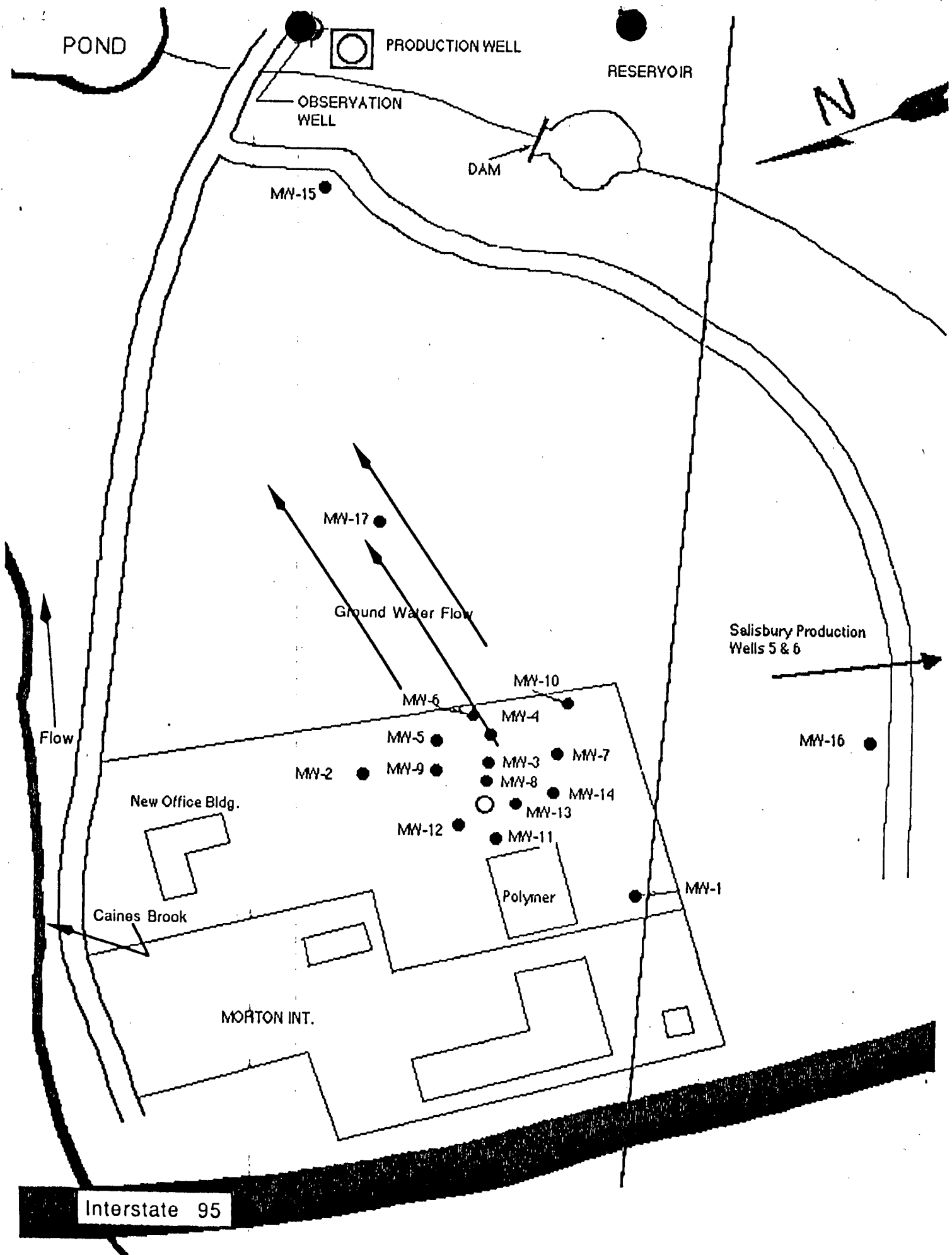
Please feel free to contact me if you have any questions.

Sincerely,

K. J. Quinn & Co., Inc.

  
Samuel P.M. Gray  
Vice President

Enc.  
1351f



Interstate 95

POND

PRODUCTION WELL

RESERVOIR

OBSERVATION  
WELL

DAM

MW-15

MW-17

Salisbury Production  
Wells 5 & 6

MW-16

MW-10

MW-6

MW-4

MW-5

MW-2

MW-9

MW-3

MW-7

MW-8

MW-14

MW-13

MW-12

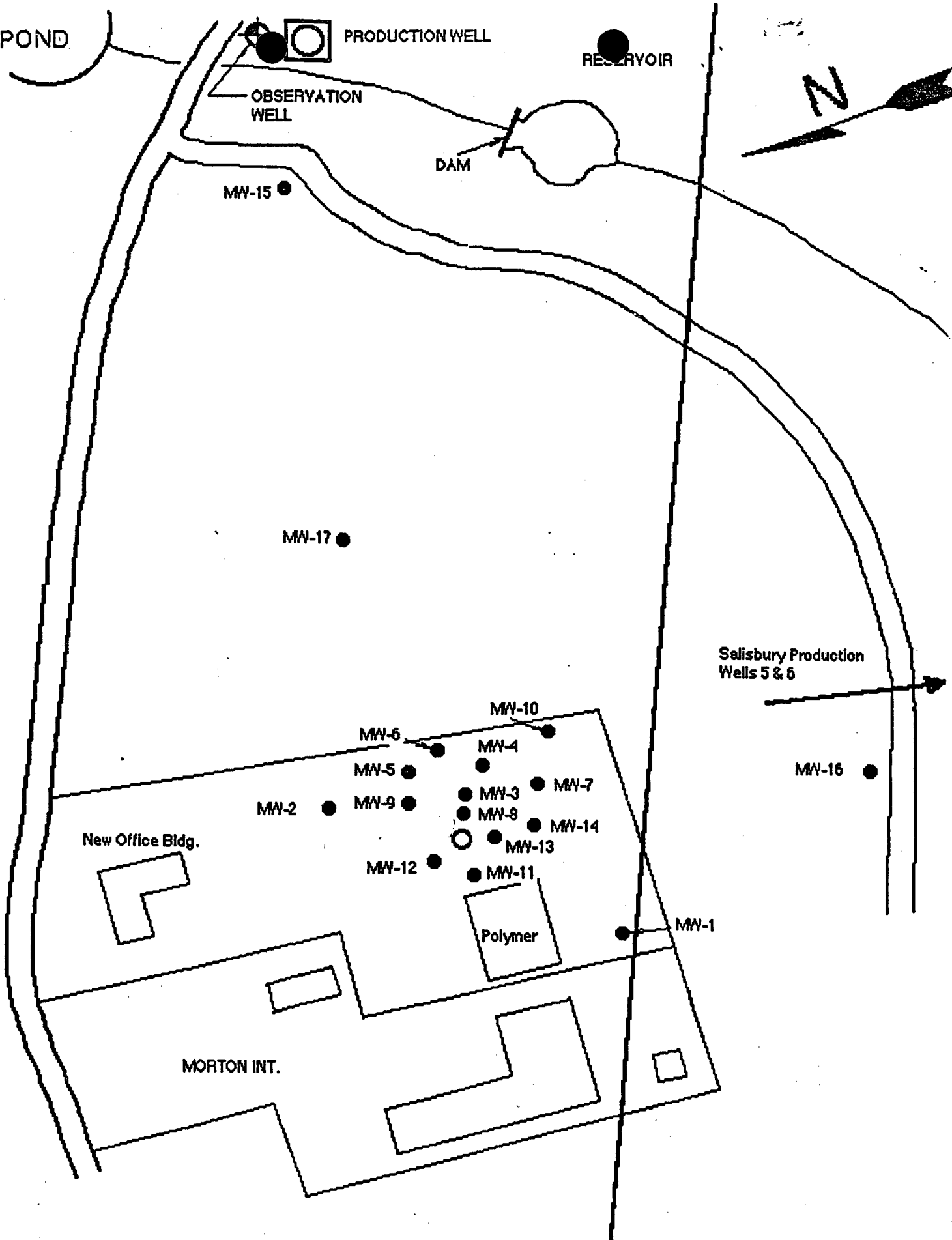
MW-11

New Office Bldg.

Polymer

MW-1

MORTON INT.



(in PPM)

[illegible]

(in PPM)

[illegible]

# Contaminant Data for Monitoring Well: 2

(in PPM)

	12/10/86	11/15/90	11/01/91
Tetrahydrofuran:	***	***	***
1,1-Dichloroethane:	***	***	***
Chloroethane:	***	***	***
1,1,1-Trichloroethane:	***	***	***
Methylene Chloride:	***	***	***
Toluene:	***	0.033	***
Ethylbenzene:	***	***	***
m-Xylene:	***	***	***
o,p-Xylene:	***	***	***
Acetone:	***	***	***
Methylethylketone:	***	***	***
1,1-Dichloroethene:	***	***	***
1,2,1-Dichloroethene:	***	***	***
1,2-Dichloroethane:	***	***	***
Trichloroethene:	***	***	***
Benzene:	***	***	***
Chlorobenzene:	***	***	***
1,1,2-Trichloroethane:	***	***	***
Chloromethane:	***	***	***
Methyl Isobutyl Ketone:	***	***	***
Tetrachloroethene:	***	***	***

\*\*\*: Not Detected

## Contaminant Data for Monitoring Well: 3

(in PPM)

	05/07/82	06/02/82	05/20/83	05/23/83	05/28/83	06/27/83	07/06/83	03/26/86	11/13/87	11/15/90
Tetrahydrofuran:	***	***	0.423	0.906	***	***	***	***	***	***
1,1-Dichloroethane:	43.000	0.043	0.039	0.078	***	0.008	0.009	***	***	***
Chloroethane:	***	***	***	***	***	***	***	***	***	***
1,1,1-Trichloroethane:	21.000	0.021	0.458	0.800	0.540	0.495	0.495	***	***	***
Methylene Chloride:	***	***	***	***	***	***	***	***	***	***
Toluene:	***	***	0.010	0.012	0.010	0.005	0.005	***	***	0.035
Ethylbenzene:	***	***	***	0.011	***	***	***	***	***	***
m-Xylene:	***	***	***	0.012	0.005	***	***	***	***	***
o,p-Xylene:	***	***	***	0.025	***	***	***	***	***	***
Acetone:	***	***	***	0.039	***	***	***	***	***	***
Methylethylketone:	***	***	0.418	0.870	0.100	***	***	***	***	***
1,1-Dichloroethene:	***	***	***	0.002	0.002	0.038	0.038	***	***	***
1,2,1-Dichloroethene:	***	***	***	***	***	***	***	***	***	***
1,2-Dichloroethane:	***	***	***	***	***	***	***	***	***	***
Trichloroethene:	***	***	***	***	***	***	***	***	***	***
Benzene:	***	***	***	***	***	***	***	***	***	***
Chlorobenzene:	***	***	***	***	***	***	***	***	***	***
1,1,2-Trichloroethane:	***	***	***	***	***	***	***	***	***	***
Chloromethane:	***	***	***	***	***	***	***	***	***	***
Methyl Isobutyl Ketone:	***	***	***	***	***	***	***	***	***	***
Tetrachloroethene:	***	***	***	***	***	***	***	***	***	***
***: Not Detected				0.005	0.005	***	***	***	***	***

## Contaminant Data for Monitoring Well: 4

(in PPM)

	05/07/82	06/02/82	05/20/83	05/23/83	05/28/83	06/27/83	07/06/83	08/19/83	08/23/83	08/24/83	11/04/87	11/13/87
Tetrahydrofuran:	***	***	0.355	0.339	***	***	***	12.000	18.000	50.000	***	***
1,1-Dichloroethane:	***	***	0.037	0.044	***	0.012	0.012	***	0.520	0.190	***	***
Chloroethane:	***	***	***	***	***	***	***	***	0.050	0.030	***	***
1,1,1-Trichloroethane:	***	***	0.724	0.250	0.150	0.760	0.760	7.300	4.200	13.500	0.005	0.005
Methylene Chloride:	***	***	***	***	***	***	***	***	0.026	0.039	***	***
Toluene:	***	***	***	***	***	***	***	0.600	0.640	2.400	***	***
Ethylbenzene:	***	***	***	***	***	***	***	0.100	0.170	0.350	***	***
m-Xylene:	***	***	***	***	***	***	***	0.400	0.416	0.750	***	***
o,p-Xylene:	***	***	***	***	***	***	***	***	***	***	***	***
Acetone:	***	***	***	***	***	***	***	0.200	0.260	0.200	***	***
Methylethylketone:	***	***	0.342	0.330	0.050	***	***	10.000	***	***	***	***
1,1-Dichloroethene:	***	***	***	***	***	0.040	0.040	***	0.084	0.190	***	***
1,2,1-Dichloroethene:	***	***	***	***	***	***	***	***	***	***	***	***
1,2-Dichloroethane:	***	***	***	***	***	***	***	***	0.005	0.020	***	***
Trichloroethene:	***	***	***	***	0.005	***	***	***	***	0.005	***	***
Benzene:	***	***	***	***	***	***	***	***	***	0.005	***	***
Chlorobenzene:	***	***	***	***	***	***	***	***	***	***	***	***
1,1,2-Trichloroethane:	***	***	***	***	***	***	***	***	***	0.016	***	***
Chloromethane:	***	***	***	***	***	***	***	***	***	***	***	***
Methyl Isobutyl Ketone:	***	***	***	***	***	***	***	0.100	***	***	***	***
Tetrachloroethene:	***	***	***	0.005	***	***	***	***	0.005	0.006	***	***

\*\*\*: Not Detected



Contaminant Data for Monitoring Well: 4

(in PPM)

	11/15/90	11/01/91
Tetrahydrofuran:	***	***
1,1-Dichloroethane:	***	***
Chloroethane:	***	***
1,1,1-Trichloroethane:	***	***
Methylene Chloride:	***	***
Toluene:	***	***
Ethylbenzene:	***	0.005
m-Xylene:	***	***
o,p-Xylene:	***	***
Acetone:	***	***
Methylethylketone:	***	***
1,1-Dichloroethene:	***	***
1,2,1-Dichloroethene:	***	***
1,2-Dichloroethane:	***	***
Trichloroethene:	***	***
Benzene:	***	***
Chlorobenzene:	***	***
1,1,2-Trichloroethane:	***	***
Chloromethane:	***	***
Methyl Isobutyl Ketone:	***	***
Tetrachloroethene:	***	***

\*\*\*: Not Detected

Contaminant Data for Monitoring Well: 5

(in PPM)

	05/07/82	06/02/82	05/20/83	05/23/83	05/28/83	06/27/83	07/06/83	11/15/90	11/01/91
Tetrahydrofuran:	***	***	***	0.009	***	***	***	***	***
1,1-Dichloroethane:	***	***	0.011	***	***	0.010	0.010	***	***
Chloroethane:	***	***	***	***	***	***	***	***	***
1,1,1-Trichloroethane:	***	***	0.042	***	***	0.045	0.045	***	***
Methylene Chloride:	***	***	0.010	***	***	***	***	***	***
Toluene:	***	***	***	***	***	***	***	***	0.005
Ethylbenzene:	***	***	***	***	***	***	***	***	***
m-Xylene:	***	***	***	***	***	***	***	***	***
o,p-Xylene:	***	***	***	***	***	***	***	***	***
Acetone:	***	***	***	***	***	***	***	***	***
Methylethylketone:	***	***	***	***	***	***	***	***	***
1,1-Dichloroethene:	***	***	***	0.009	***	***	***	***	***
1,2,1-Dichloroethene:	***	***	***	***	***	***	***	***	***
1,2-Dichloroethane:	***	***	***	***	***	***	***	***	***
Trichloroethene:	***	***	***	***	***	***	***	***	***
Benzene:	***	***	***	***	***	0.010	0.010	***	***
Chlorobenzene:	***	***	***	***	***	***	***	***	***
1,1,2-Trichloroethane:	***	***	***	***	***	***	***	***	***
Chloromethane:	***	***	***	***	***	***	***	***	***
Methyl Isobutyl Ketone:	***	***	***	***	***	***	***	***	***
Tetrachloroethene:	***	***	***	***	***	***	***	***	***
***: Not Detected						0.020	***	***	***

## Contaminant Data for Monitoring Well: 6

(in PPM)

	08/19/83	08/22/83	11/04/83	11/28/83	12/05/83	12/14/83	12/29/83	01/12/84	02/27/84	03/28/84	05/04/84	05/17/84
Tetrahydrofuran:	0.290	0.290	0.360	0.240	0.100	0.300	***	0.740	0.039	***	***	0.010
1,1-Dichloroethane:	***	***	0.100	0.025	0.020	0.052	0.042	0.100	0.005	***	***	0.010
Chloroethane:	0.083	***	***	***	***	***	***	***	***	***	***	***
1,1,1-Trichloroethane:	***	0.083	0.130	0.030	0.023	0.110	0.069	0.210	0.005	***	***	0.010
Methylene Chloride:	***	***	***	***	***	***	***	***	***	***	***	0.010
Toluene:	0.001	0.001	***	***	***	***	***	***	***	0.010	***	***
Ethylbenzene:	0.001	0.001	***	***	***	***	***	***	***	***	***	***
m-Xylene:	0.002	0.002	***	***	***	***	***	***	***	***	***	***
o,p-Xylene:	***	***	***	***	***	***	***	***	***	***	***	***
Acetone:	***	***	***	***	0.028	***	0.220	0.007	0.024	0.010	***	0.010
Methylethylketone:	0.010	***	***	***	***	***	***	***	***	***	***	***
1,1-Dichloroethene:	***	***	***	***	***	***	***	0.005	***	***	***	***
1,2,1-Dichloroethene:	***	***	***	***	***	***	***	***	***	***	***	***
1,2-Dichloroethane:	***	***	***	***	***	***	***	***	***	***	***	***
Trichloroethene:	***	***	***	***	***	***	***	***	***	***	***	0.010
Benzene:	***	***	***	***	***	***	***	***	***	***	***	***
Chlorobenzene:	***	***	***	***	***	***	***	***	***	***	***	***
1,1,2-Trichloroethane:	***	***	***	***	***	***	***	***	***	***	***	***
Chloromethane:	***	***	***	***	***	***	***	***	***	***	***	***
Methyl Isobutyl Ketone:	***	***	***	***	***	***	***	***	***	***	***	***
Tetrachloroethene:	***	***	***	***	***	***	***	***	***	***	***	***

\*\*\*: Not Detected

Contaminant Data for Monitoring Well: 6

(in PPM)

	06/29/84	08/10/84	11/13/84	06/06/85	12/10/86	11/15/90	11/01/91
Tetrahydrofuran:	0.010	0.070	0.520	***	***	***	***
1,1-Dichloroethane:	0.010	0.015	0.060	***	***	***	***
Chloroethane:	***	***	0.010	***	***	***	***
1,1,1-Trichloroethane:	0.010	0.050	0.090	***	***	***	***
Methylene Chloride:	***	***	***	***	***	***	***
Toluene:	***	***	***	***	***	0.035	***
Ethylbenzene:	***	***	***	***	***	***	0.005
m-Xylene:	***	***	***	***	***	***	***
o,p-Xylene:	***	***	***	***	***	***	***
Acetone:	***	***	***	***	***	***	***
Methylethylketone:	***	0.040	***	***	***	***	***
1,1-Dichloroethene:	***	***	***	***	***	***	***
1,2,1-Dichloroethene:	***	***	0.010	***	***	***	***
1,2-Dichloroethane:	***	***	***	***	***	***	***
Trichloroethene:	***	***	***	***	***	***	***
Benzene:	***	***	***	***	***	***	***
Chlorobenzene:	***	***	***	***	***	***	***
1,1,2-Trichloroethane:	***	***	***	***	***	***	***
Chloromethane:	***	***	***	***	***	***	***
Methyl Isobutyl Ketone:	***	***	***	***	***	***	***
Tetrachloroethene:	***	***	***	***	***	***	***
***: Not Detected							

## Contaminant Data for Monitoring Well: 7

(in PPM)

	11/04/83	11/15/83	11/21/83	02/27/84	03/30/84	05/17/84	08/10/84	11/15/90	11/01/91
Tetrahydrofuran:	***	0.014	***	0.051	0.029	0.005	0.100	***	***
1,1-Dichloroethane:	***	0.010	***	0.006	0.005	0.005	0.020	***	***
Chloroethane:	***	***	***	***	***	***	0.060	***	***
1,1,1-Trichloroethane:	0.039	0.092	0.055	0.013	0.016	0.008	0.120	***	***
Methylene Chloride:	***	***	***	***	***	***	***	***	***
Toluene:	***	***	***	***	0.005	***	***	***	***
Ethylbenzene:	***	***	***	***	***	***	***	***	***
m-Xylene:	***	***	***	***	***	***	***	***	***
o,p-Xylene:	***	***	***	***	***	***	***	***	***
Acetone:	***	***	***	***	***	***	***	***	***
Methylethylketone:	***	***	***	***	0.090	0.005	0.007	***	***
1,1-Dichloroethene:	0.005	0.010	***	***	***	***	***	***	***
1,2,1-Dichloroethene:	***	***	***	***	***	***	***	***	***
1,2-Dichloroethane:	***	***	***	***	***	***	***	***	***
Trichloroethene:	***	***	***	***	***	***	***	***	***
Benzene:	***	***	***	***	***	***	***	***	***
Chlorobenzene:	***	***	***	***	***	***	***	***	***
1,1,2-Trichloroethane:	***	***	***	***	***	***	***	***	***
Chloromethane:	***	***	***	***	***	***	***	***	***
Methyl Isobutyl Ketone:	***	***	***	***	***	***	***	***	***
Tetrachloroethene:	***	***	***	***	***	***	***	***	***

\*\*\*: Not Detected

## Contaminant Data for Monitoring Well: 8

(in PPM)

08/19/83

Tetrahydrofuran:	4.100
1,1-Dichloroethane:	***
Chloroethane:	4.000
1,1,1-Trichloroethane:	***
Methylene Chloride:	***
Toluene:	0.350
Ethylbenzene:	0.170
m-Xylene:	0.320
o,p-Xylene:	***
Acetone:	***
Methylethylketone:	2.100
1,1-Dichloroethene:	***
1,2,1-Dichloroethene:	***
1,2-Dichloroethane:	***
Trichloroethene:	***
Benzene:	***
Chlorobenzene:	***
1,1,2-Trichloroethane:	***
Chloromethane:	***
Methyl Isobutyl Ketone:	***
Tetrachloroethene:	***

\*\*\*: Not Detected

Contaminant Data for Monitoring Well: 10 (in PPM)

	06/29/84	08/10/84	11/13/84	12/13/86	11/15/90	11/01/91
Tetrahydrofuran:	***	***	***	***	***	***
1,1-Dichloroethane:	***	***	***	***	***	***
Chloroethane:	***	***	***	***	***	***
1,1,1-Trichloroethane:	***	***	***	***	***	***
Methylene Chloride:	***	***	***	***	***	***
Toluene:	***	***	***	***	***	***
Ethylbenzene:	***	***	***	***	***	0.015
m-Xylene:	***	***	***	***	***	***
o,p-Xylene:	***	***	***	***	***	***
Acetone:	***	***	***	***	***	***
Methylethylketone:	***	***	***	***	***	***
1,1-Dichloroethene:	***	***	***	***	***	***
1,2,1-Dichloroethene:	***	***	***	***	***	***
1,2-Dichloroethane:	***	***	***	***	***	***
Trichloroethene:	***	***	***	***	***	***
Benzene:	***	***	***	***	***	***
Chlorobenzene:	***	***	***	***	***	***
1,1,2-Trichloroethane:	***	***	***	***	***	***
Chloromethane:	***	***	***	***	***	***
Methyl Isobutyl Ketone:	***	***	***	***	***	***
Tetrachloroethene:	***	***	***	***	***	***

\*\*\*: Not Detected

## Contaminant Data for Monitoring Well: 10

(in PPM)

	08/19/83	08/22/83	11/04/83	11/28/83	12/05/83	12/14/83	12/29/83	01/12/84	02/27/84	03/30/84	05/04/84	05/17/84
Tetrahydrofuran:	0.020	0.020	***	***	***	***	***	***	***	***	***	***
1,1-Dichloroethane:	***	***	***	***	***	***	***	***	***	***	***	***
Chloroethane:	0.049	***	***	***	***	***	***	***	***	***	***	***
1,1,1-Trichloroethane:	***	0.049	***	***	***	***	***	***	***	***	***	***
Methylene Chloride:	***	***	***	***	***	***	***	***	***	***	***	***
Toluene:	0.002	0.002	***	***	***	***	***	0.005	***	0.005	***	***
Ethylbenzene:	***	***	***	***	***	***	***	***	***	***	***	***
m-Xylene:	***	***	***	***	***	***	***	***	***	***	***	***
o,p-Xylene:	***	***	***	***	***	***	***	***	***	***	***	***
Acetone:	***	***	***	***	0.006	***	***	***	***	0.030	***	0.010
Methylethylketone:	***	***	***	***	***	***	***	***	***	***	***	***
1,1-Dichloroethene:	***	***	***	***	***	***	***	***	***	***	***	***
1,2,1-Dichloroethene:	***	***	***	***	***	***	***	***	***	***	***	***
1,2-Dichloroethane:	***	***	***	***	***	***	***	***	***	***	***	***
Trichloroethene:	***	***	***	***	***	***	***	***	***	***	***	***
Benzene:	***	***	***	***	***	***	***	***	***	***	***	***
Chlorobenzene:	***	***	***	***	***	***	***	***	***	***	***	***
1,1,2-Trichloroethane:	***	***	***	***	***	***	***	***	***	***	***	***
Chloromethane:	***	***	***	***	***	***	***	***	***	***	***	***
Methyl Isobutyl Ketone:	***	***	***	***	***	***	***	***	***	***	***	***
Tetrachloroethene:	***	***	***	***	***	***	***	***	***	0.011	***	***

\*\*\*: Not Detected



Contaminant Data for Monitoring Well: 11 (in PPM)

	11/04/83	11/15/83	11/21/83	02/27/84	03/30/84	05/17/84	08/10/84
Tetrahydrofuran:	0.062	***	***	***	***	***	***
1,1-Dichloroethane:	0.009	***	***	***	***	***	***
Chloroethane:	***	***	***	***	***	***	***
1,1,1-Trichloroethane:	0.038	***	***	***	***	***	***
Methylene Chloride:	0.010	***	***	***	***	***	***
Toluene:	***	***	***	***	***	***	***
Ethylbenzene:	***	***	***	***	***	***	***
m-Xylene:	***	***	***	***	***	***	***
o,p-Xylene:	***	***	***	***	***	***	***
Acetone:	0.300	***	***	0.025	***	***	***
Methylethylketone:	0.330	***	***	***	***	***	***
1,1-Dichloroethene:	***	***	***	***	***	***	***
1,2,1-Dichloroethene:	***	***	***	***	***	***	***
1,2-Dichloroethane:	0.058	***	***	***	***	***	***
Trichloroethene:	0.005	***	***	0.005	***	***	***
Benzene:	***	***	***	***	***	***	***
Chlorobenzene:	***	***	***	***	***	***	***
1,1,2-Trichloroethane:	***	***	***	0.005	***	***	***
Chloromethane:	***	***	***	***	***	***	***
Methyl Isobutyl Ketone:	0.011	***	***	***	***	***	***
Tetrachloroethene:	***	***	***	***	***	***	***

\*\*\*: Not Detected

## Contaminant Data for Monitoring Well: 13

(in PPM)

	11/04/87	11/13/87
Tetrahydrofuran:	***	***
1,1-Dichloroethane:	0.023	0.023
Chloroethane:	***	***
1,1,1-Trichloroethane:	0.009	0.009
Methylene Chloride:	***	***
Toluene:	***	***
Ethylbenzene:	***	***
m-Xylene:	***	***
o,p-Xylene:	***	***
Acetone:	***	***
Methylethylketone:	***	***
1,1-Dichloroethene:	***	***
1,2,1-Dichloroethene:	***	***
1,2-Dichloroethane:	***	***
Trichloroethene:	***	***
Benzene:	***	***
Chlorobenzene:	***	***
1,1,2-Trichloroethane:	***	***
Chloromethane:	***	***
Methyl Isobutyl Ketone:	***	***
Tetrachloroethene:	***	***

\*\*\*: Not Detected

## Contaminant Data for Monitoring Well: 15

(in PPM)

	01/26/84	02/14/84	08/10/84	01/13/85	06/06/85	12/04/86	12/13/86	11/14/87
Tetrahydrofuran:	***	***	***	***	***	***	***	***
1,1-Dichloroethane:	***	***	***	***	***	***	***	***
Chloroethane:	***	***	***	***	***	***	***	***
1,1,1-Trichloroethane:	0.100	0.055	0.030	0.059	***	0.015	0.015	0.005
Methylene Chloride:	***	***	0.009	***	***	***	***	***
Toluene:	***	0.005	***	0.010	0.036	***	***	***
Ethylbenzene:	***	***	***	***	***	***	***	***
m-Xylene:	***	***	***	***	***	***	***	***
o,p-Xylene:	***	***	***	***	***	***	***	***
Acetone:	***	***	***	***	***	***	***	***
Methylethylketone:	***	***	***	***	***	***	0.005	***
1,1-Dichloroethene:	***	***	***	***	***	***	***	***
1,2,1-Dichloroethene:	***	***	***	***	0.010	***	***	***
1,2-Dichloroethane:	***	***	***	***	***	***	***	***
Trichloroethene:	***	***	***	***	***	***	***	***
Benzene:	***	***	***	***	***	***	***	***
Chlorobenzene:	***	***	***	***	***	***	***	***
1,1,2-Trichloroethane:	***	***	***	***	***	***	***	***
Chloromethane:	***	***	***	***	***	***	***	***
Methyl Isobutyl Ketone:	***	***	***	***	***	***	***	***
Tetrachloroethene:	***	***	***	***	***	***	***	***

\*\*\*: Not Detected

no  
results  
since  
1987 for  
mw ##15-  
17

## Contaminant Data for Monitoring Well: 16

(in PPM)

	01/26/84	02/14/84	03/30/84	08/10/84	01/30/85	06/05/85	12/13/86	11/14/87
Tetrahydrofuran:	***	***	***	***	***	***	***	***
1,1-Dichloroethane:	***	***	***	***	***	***	***	***
Chloroethane:	***	***	***	***	***	***	***	***
1,1,1-Trichloroethane:	***	***	***	***	***	***	***	***
Methylene Chloride:	***	0.005	***	***	***	***	***	***
Toluene:	***	0.005	0.005	***	0.006	***	***	***
Ethylbenzene:	***	***	***	***	***	***	***	***
m-Xylene:	***	***	***	***	***	***	***	***
o,p-Xylene:	***	***	***	***	***	***	***	***
Acetone:	***	0.500	0.160	***	***	***	***	***
Methylethylketone:	0.005	***	0.100	***	***	***	***	***
1,1-Dichloroethene:	***	***	***	***	***	***	***	***
1,2,1-Dichloroethene:	***	***	***	***	***	***	***	***
1,2-Dichloroethane:	***	***	***	***	***	***	***	***
Trichloroethene:	***	***	***	***	***	***	***	***
Benzene:	***	0.005	***	***	***	***	***	***
Chlorobenzene:	***	***	***	***	***	***	***	***
1,1,2-Trichloroethane:	***	***	***	***	***	***	***	***
Chloromethane:	***	***	***	***	***	***	***	***
Methyl Isobutyl Ketone:	***	***	***	***	***	***	***	***
Tetrachloroethene:	***	***	***	***	***	***	***	***

\*\*\*: Not Detected

## Contaminant Data for Monitoring Well: 17

(in PPM)

	01/26/84	02/14/84	08/10/84	11/13/84	01/16/85	06/07/85	12/04/86	12/13/86	11/04/87	11/14/87
Tetrahydrofuran:	16.000	16.000	4.000	11.500	***	1.900	0.160	0.160	***	***
1,1-Dichloroethane:	0.170	0.090	0.140	1.300	0.070	0.090	0.005	0.005	***	***
Chloroethane:	0.005	0.005	0.005	***	***	***	***	***	***	***
1,1,1-Trichloroethane:	0.825	0.570	0.960	1.100	0.680	0.730	0.072	0.072	0.015	0.015
Methylene Chloride:	0.005	0.005	***	***	***	***	***	***	***	***
Toluene:	***	0.005	***	***	0.010	***	***	***	***	***
Ethylbenzene:	0.005	0.005	***	***	***	***	***	***	***	***
m-Xylene:	***	***	***	***	***	***	***	***	***	***
o,p-Xylene:	***	***	***	***	***	***	***	***	***	***
Acetone:	***	***	***	***	***	***	***	***	***	***
Methylethylketone:	***	***	***	***	***	***	***	***	***	***
1,1-Dichloroethene:	0.015	0.015	0.010	0.020	0.020	0.050	***	0.007	***	***
1,2,1-Dichloroethene:	***	***	***	***	***	***	***	***	***	***
1,2-Dichloroethane:	***	***	***	***	***	***	***	***	***	***
Trichloroethene:	***	***	***	***	***	***	***	***	***	***
Benzene:	0.005	***	***	***	***	***	***	***	***	***
Chlorobenzene:	***	***	***	***	***	***	***	***	***	***
1,1,2-Trichloroethane:	***	***	***	***	***	***	***	***	***	***
Chloromethane:	***	***	***	***	***	***	***	***	***	***
Methyl Isobutyl Ketone:	***	***	***	***	***	***	***	***	***	***
Tetrachloroethene:	***	***	***	***	***	***	***	***	***	***

\*\*\*: Not Detected

Acute Toxicity Monitoring  
Daphnia Pulex  
Outfalls 001A & 004

Sample Date: 03/01/90

Location	LC 50	NOAEL	Comments
Out fall 004	>100 %	100 %	001A acute toxicity was ran on a sample that was in storage beyond the acceptable hold time. The results therefor are invalid. This was a re-test after an unexplained significant mortality rate in 1% and 50% dilution levels.
Out Fall 001A	>100 %	75 %	
Dillution Water	>100 %	100 %	

Sample Date: 05/01/90

Location	LC 50	NOAEL	Comments
Out fall 004	>100 %	100 %	Site diluent- Caines Brook
Out Fall 001A	>100 %	100 %	
Dillution Water	>100 %	100 %	

Sample Date: 07/01/90

Location	LC 50	NOAEL	Comments
Out fall 004	%	%	Site diluent- Caines Brook
Out Fall 001A	>100 %	100 %	
Dillution Water	>100 %	100 %	

Sample Date: 08/01/90

Location	LC 50	NOAEL	Comments
Out fall 004	>100 %	100 %	Site dilution shows toxicity.
Out Fall 001A	%	%	
Dillution Water	>100 %	70 %	

Sample Date: 09/01/90

Location	LC 50	NOAEL	Comments
Out fall 004	>100 %	100 %	Site dilution showed toxicity which could have effected the 001A outfall toxicity. The NOAEL is not a calculated value but an expected value and should be looked at with some caution.
Out Fall 001A	>100 %	50 %	
Dillution Water	>100 %	50 %	

Sample Date 11/01/90	Acute Toxicity		Chronic Toxicity		
	LC50	NOAEL	NOEC	LOEC	Chronic Value
Ceriodaphnia dubia	>100%	100 %	>100%	>100%	>100%
Pimephales promelas	>100%	100 %	>100%	>100%	>100%

**Comments:**

Although the lab results were low the site and effluent results were above minimum requirements and therefore results are acceptable. No toxicity was found.

Sample Date 02/01/91	Acute Toxicity		Chronic Toxicity		
	LC50	NOAEL	NOEC	LOEC	Chronic Value
Ceriodaphnia dubia	>100%	100 %	>100%	>100%	>100%
Pimephales promelas	>100%	85 %	>100%	>100%	>100%

**Comments:**

Site survival for Pimephales is less than required indicating that the site diluent (upstream diluent) had a chronic toxicity. Effluent shows some acute toxicity over 85% concentration.

Sample Date /01/91	Acute Toxicity		Chronic Toxicity		
	LC50	NOAEL	NOEC	LOEC	Chronic Value
Ceriodaphnia dubia	>100%	100 %	>100%	>100%	>100%
Pimephales promelas	>100%	100 %	>100%	>100%	>100%

**Comments:**

It is believed that the pimephales site dilution water chambers were contaminated. Still indications are that dilution water showed both acute and chronic toxicity as can be demonstrated in the number of broods produced and other indications.

Sample Date 10/01/91	Acute Toxicity		Chronic Toxicity		
	LC50	NOAEL	NOEC	LOEC	Chronic Value
Ceriodaphnia dubia	>100%	100 %	>100%	>100%	>100%
Pimephales promelas	>100%	100 %	>100%	>100%	>100%

**Comments:**

Site dilution indicates the possibility of some toxicity.

Sample Date 12/01/91	Acute Toxicity		Chronic Toxicity		
	LC50	NOAEL	NOEC	LOEC	Chronic Value
Ceriodaphnia dubia	>100%	100 %	50 %	>100%	70.7%
Pimephales promelas	>100%	100 %	>100%	>100%	>100%

**Comments:**

Test has been ruled invalid by the State as insufficient site dilutions were used as a based for calculating Chronic values. Site dilution control survival shows considerable toxicity on pimephales promelas.

Acute Toxicity Monitoring  
Daphnia Pulex  
Outfalls 001A & 004

Sample Date: 03/01/88

Location	LC 50	NOAEL	Comments
Out fall 004	>100 %	70 %	70% NOAEL bases on 85% survival at end of 48 hours. Dilution water had 90% survival at end of 48 hrs.
Out Fall 001A	>100 %	100 %	
Dillution Water	%	%	

Sample Date: 06/01/88

Location	LC 50	NOAEL	Comments
Out fall 004	>100 %	100 %	
Out Fall 001A	%	%	
Dillution Water	>100 %	100 %	

Sample Date: 06/07/88

Location	LC 50	NOAEL	Comments
Out fall 004	>100 %	100 %	
Out Fall 001A	%	%	
Dillution Water	>100 %	100 %	

Sample Date: 11/01/88

Location	LC 50	NOAEL	Comments
Out fall 004	>100 %	100 %	85% survival in site dilution.
Out Fall 001A	%	%	
Dillution Water	>100 %	70 %	

Sample Date: 04/01/89

Location	LC 50	NOAEL	Comments
Out fall 004	>100 %	100 %	
Out Fall 001A	%	%	
Dillution Water	>100 %	100 %	

Sample Date: 05/01/89

Location	LC 50	NOAEL	Comments
Out fall 004	>100 %	50 %	Results questionable! 10% and 25% dilutions showed higher mortalities than all other dilutions. Matrix blanks showed the presence of zinc which could be a factor.
Out Fall 001A	%	%	
Dillution Water	>100 %	100 %	

Sample Date: 08/01/89

Location	LC 50	NOAEL	Comments
Out fall 004	>100 %	100 %	At lower dilution levels there were higher mortalities even though 100% dilution showed no toxicity.
Out Fall 001A	%	%	
Dillution Water	>100 %	100 %	

Sample Date: 12/01/89

Location	LC 50	NOAEL	Comments
Out fall 004	>100 %	100 %	Significant toxicity found in upstream dilution.
Out Fall 001A	>100 %	100 %	
Dillution Water	<50 %	0 %	



Contaminant Data for Monitoring Well: R1 (in PPM)

	01/30/87	02/01/87	02/02/87	02/08/87	02/09/87	02/19/87	02/24/87	03/04/87	03/09/87	03/16/87	03/23/87	03/31/87
Tetrahydrofuran:	0.025	0.100	0.056	0.270	0.031	***	0.180	0.150	0.120	0.074	0.081	0.110
1,1-Dichloroethane:	0.020	0.073	0.024	0.110	0.031	0.019	0.042	0.029	0.037	0.021	0.022	0.047
Chloroethane:	0.008	0.022	0.016	0.038	0.017	***	0.014	0.005	0.011	***	0.005	0.008
1,1,1-Trichloroethane:	0.062	0.190	0.060	0.240	0.092	0.072	0.340	0.076	0.140	0.110	0.130	0.200
Methylene Chloride:	***	***	***	***	***	***	***	***	***	***	***	***
Toluene:	***	0.018	0.011	***	0.009	***	0.022	0.008	0.010	0.008	0.011	***
Ethylbenzene:	0.014	0.019	0.012	***	***	***	0.022	***	0.007	***	0.006	***
m-Xylene:	0.025	0.022	0.047	0.005	0.017	0.010	0.034	0.010	0.011	***	0.011	0.006
o,p-Xylene:	***	0.013	***	0.005	***	***	***	***	***	***	***	***
Acetone:	***	***	***	***	***	***	***	***	***	***	***	***
Methylethylketone:	***	***	0.078	***	***	***	0.300	0.067	0.097	0.028	0.042	***
1,1-Dichloroethene:	***	***	***	***	***	***	***	***	***	***	***	***
1,2,1-Dichloroethene:	***	***	***	***	***	***	***	***	***	***	***	***
1,2-Dichloroethane:	***	***	***	***	***	***	***	***	***	***	***	***
Trichloroethene:	***	***	***	***	***	***	***	***	***	***	***	***
Benzene:	***	***	***	***	***	***	***	***	***	***	***	***
Chlorobenzene:	***	***	***	***	***	***	***	***	***	***	***	***
1,1,2-Trichloroethane:	***	***	***	***	***	***	***	***	***	***	***	***
Chloromethane:	***	***	***	***	***	***	***	***	***	***	***	***
Methyl Isobutyl Ketone:	***	***	***	***	***	***	***	***	***	***	***	***
Tetrachloroethene:	***	***	***	***	***	***	***	***	***	***	***	***

\*\*\*: Not Detected

## Contaminant Data for Monitoring Well: R1

(in PPM)

	04/07/87	04/15/87	04/24/87	04/29/87	05/05/87	05/12/87	05/18/87	06/15/87	06/22/87	06/30/87	07/07/87	07/15/87
Tetrahydrofuran:	0.030	0.160	0.170	0.140	0.090	0.120	0.108	0.087	0.140	0.110	0.110	0.130
1,1-Dichloroethane:	0.050	0.036	0.014	0.028	0.024	0.021	0.024	0.026	0.031	0.069	0.084	0.130
Chloroethane:	0.005	***	***	0.006	0.008	***	0.007	***	***	0.018	0.013	0.025
1,1,1-Trichloroethane:	0.130	0.180	0.140	0.140	0.200	0.200	0.190	0.170	0.400	0.320	0.420	1.200
Methylene Chloride:	***	***	***	***	0.160	***	***	***	***	0.015	***	***
Toluene:	0.007	0.016	0.007	0.008	0.018	***	0.012	***	***	0.031	0.028	0.088
Ethylbenzene:	***	0.005	***	0.005	***	***	***	***	***	***	0.015	0.070
m-Xylene:	***	0.016	0.010	0.012	0.011	***	0.009	***	***	0.032	0.020	0.090
o,p-Xylene:	***	***	***	***	***	***	***	***	***	0.019	0.017	0.050
Acetone:	***	***	***	***	***	***	***	***	***	***	0.037	***
Methylethylketone:	***	***	***	***	***	***	***	***	***	***	***	***
1,1-Dichloroethene:	***	***	***	***	0.005	***	***	***	***	***	0.012	0.026
1,2,1-Dichloroethene:	***	***	***	***	***	***	***	***	***	***	***	***
1,2-Dichloroethane:	***	***	***	***	***	***	***	***	***	***	***	***
Trichloroethene:	***	***	***	***	***	***	***	***	***	***	***	***
Benzene:	***	***	***	***	***	***	***	***	***	***	***	***
Chlorobenzene:	***	***	***	0.005	***	***	***	***	***	***	***	***
1,1,2-Trichloroethane:	***	***	***	***	***	***	***	***	***	***	***	***
Chloromethane:	***	***	***	***	***	***	***	***	***	***	***	***
Methyl Isobutyl Ketone:	***	***	***	***	***	***	***	***	***	***	***	***
Tetrachloroethene:	***	***	***	***	0.350	***	***	***	***	***	***	***

\*\*\*: Not Detected

Contaminant Data for Monitoring Well: R1 (in PPM)

	11/04/83	11/04/83	11/14/83	11/21/83	11/28/83	12/05/83	12/14/83	12/29/83	12/30/83	02/27/84	03/30/84	05/04/84
Tetrahydrofuran:	4.700	2.600	5.900	12.000	31.000	2.500	1.500	***	0.300	0.720	0.430	0.260
1,1-Dichloroethane:	0.660	0.340	0.700	1.400	3.200	0.500	0.270	0.110	0.058	0.083	0.062	0.047
Chloroethane:	***	0.040	0.100	0.440	***	***	***	***	0.043	***	0.011	***
1,1,1-Trichloroethane:	2.400	1.000	5.100	2.300	8.800	1.400	0.500	0.180	0.212	0.320	0.380	0.250
Methylene Chloride:	***	***	0.010	***	0.012	***	***	***	***	***	***	***
Toluene:	0.190	0.170	0.340	0.810	2.900	0.380	0.350	0.066	0.065	0.093	0.088	0.093
Ethylbenzene:	0.080	0.074	0.110	0.240	1.000	0.140	0.120	0.024	0.018	0.034	0.039	0.050
m-Xylene:	***	***	***	0.050	***	***	***	***	***	***	0.060	0.180
o,p-Xylene:	***	***	***	***	***	***	***	***	***	***	***	***
Acetone:	0.140	0.140	***	***	0.023	***	***	***	***	***	0.120	0.090
Methylethylketone:	0.820	0.610	0.640	0.970	0.870	0.046	0.005	***	***	***	***	***
1,1-Dichloroethene:	0.010	0.005	0.009	***	0.015	***	***	***	***	0.005	***	***
1,2,1-Dichloroethene:	***	***	***	***	***	***	***	***	***	***	***	***
1,2-Dichloroethane:	0.140	0.110	0.090	0.140	0.140	0.011	0.008	0.010	***	***	***	***
Trichloroethene:	***	***	***	***	***	***	***	***	***	***	***	***
Benzene:	***	***	***	***	***	***	***	***	***	***	***	***
Chlorobenzene:	***	***	***	***	***	***	***	***	***	***	***	***
1,1,2-Trichloroethane:	***	***	***	***	***	***	***	***	***	***	***	***
Chloromethane:	***	***	***	***	***	***	***	***	***	***	***	***
Methyl Isobutyl Ketone:	***	***	***	***	***	***	***	***	***	***	***	***
Tetrachloroethene:	0.016	***	***	***	***	***	***	***	***	***	***	0.070

\*\*\*: Not Detected

## Contaminant Data for Monitoring Well: R1

(in PPM)

	05/17/84	08/10/84	03/26/86	12/07/86	12/14/86	12/20/86	01/04/87	01/08/87	01/11/87	01/12/87	01/20/87	01/25/87
Tetrahydrofuran:	0.220	0.230	***	0.032	***	0.027	0.033	***	0.065	0.067	0.085	0.210
1,1-Dichloroethane:	0.030	0.050	0.030	0.038	0.045	0.052	0.043	0.025	0.055	0.026	0.028	0.080
Chloroethane:	0.005	0.030	0.020	0.010	0.011	0.019	0.012	0.007	0.022	0.008	0.007	0.036
1,1,1-Trichloroethane:	0.360	0.460	0.020	0.150	0.110	0.190	0.120	0.100	0.100	0.093	0.068	0.200
Methylene Chloride:	0.005	0.007	***	***	***	***	***	***	***	***	***	***
Toluene:	0.120	0.070	0.023	0.010	0.017	0.018	0.019	0.016	0.010	0.015	0.011	0.008
Ethylbenzene:	0.079	0.050	0.017	***	0.011	0.015	0.016	0.018	0.005	0.007	0.008	***
m-Xylene:	0.530	0.160	0.014	0.009	0.022	***	0.025	0.046	0.012	0.038	0.018	0.037
o,p-Xylene:	***	***	***	0.009	0.010	0.025	0.009	***	0.009	***	***	0.013
Acetone:	0.120	0.010	***	***	***	0.011	***	***	***	***	***	***
Methylethylketone:	0.075	0.025	2.500	***	***	***	***	***	***	***	***	***
1,1-Dichloroethene:	0.005	0.005	***	***	***	***	***	***	***	***	***	***
1,2,1-Dichloroethene:	***	***	***	***	***	***	***	***	***	***	***	***
1,2-Dichloroethane:	0.030	0.050	***	***	***	***	***	***	***	***	***	***
Trichloroethene:	***	***	***	***	***	***	***	***	***	***	***	***
Benzene:	0.005	***	***	***	***	***	***	***	***	***	***	***
Chlorobenzene:	***	***	***	***	***	***	***	***	***	***	***	***
1,1,2-Trichloroethane:	***	***	***	***	***	***	***	***	***	***	***	***
Chloromethane:	***	***	***	***	***	***	***	***	***	***	***	***
Methyl Isobutyl Ketone:	***	***	***	***	***	***	***	***	***	***	***	***
Tetrachloroethene:	***	***	***	***	***	***	***	***	***	***	***	***

\*\*\*: Not Detected

## Contaminant Data for Monitoring Well: R1

(in PPM)

	07/24/87	07/30/87	08/05/87	08/10/87	08/19/87	08/24/87	08/24/87	08/31/87	09/08/87	09/14/87	09/28/87	09/30/87
Tetrahydrofuran:	***	0.068	0.048	0.028	0.025	0.140	***	***	0.025	0.035	0.039	0.120
1,1-Dichloroethane:	0.076	0.180	0.180	0.110	0.091	0.076	0.068	0.120	0.062	0.083	0.090	0.290
Chloroethane:	0.007	0.024	0.021	0.014	0.014	0.007	***	0.024	0.016	0.014	0.009	0.066
1,1,1-Trichloroethane:	0.340	0.800	0.820	0.380	0.270	0.340	0.300	0.420	0.410	0.240	0.440	0.470
Methylene Chloride:	0.080	***	***	***	***	0.080	***	***	***	***	***	***
Toluene:	***	0.041	***	0.038	***	***	***	***	0.027	0.013	0.040	***
Ethylbenzene:	***	0.006	***	0.024	***	***	***	***	0.017	0.007	0.037	***
m-Xylene:	***	0.068	***	0.064	***	***	***	***	0.050	0.019	0.052	0.030
o,p-Xylene:	***	***	***	***	***	***	***	***	***	***	0.031	***
Acetone:	***	***	***	***	***	***	***	***	***	***	***	***
Methylethylketone:	0.300	***	***	***	***	***	***	0.025	***	***	***	***
1,1-Dichloroethene:	***	0.013	***	***	0.005	***	0.007	0.007	0.007	0.006	0.010	0.011
1,2,1-Dichloroethene:	***	***	***	***	***	***	***	***	***	***	***	***
1,2-Dichloroethane:	***	***	***	***	***	***	***	***	***	***	***	***
Trichloroethene:	***	***	***	***	***	***	***	***	***	***	***	***
Benzene:	***	***	***	***	***	***	***	***	***	***	***	***
Chlorobenzene:	***	***	***	***	***	***	***	***	***	***	***	***
1,1,2-Trichloroethane:	***	***	***	***	***	***	***	***	***	***	***	***
Chloromethane:	***	***	***	***	***	***	***	***	***	***	***	***
Methyl Isobutyl Ketone:	***	***	***	***	***	***	0.006	***	***	***	***	***
Tetrachloroethene:	***	***	***	***	0.006	***	***	***	***	***	***	***

\*\*\*: Not Detected

Contaminant Data for Monitoring Well: R1 (in PPM)

	10/05/87	10/12/87	10/19/87	10/26/87	11/03/87	11/09/87	11/25/87	11/30/87	12/07/87	12/14/87	12/20/87	12/30/87
Tetrahydrofuran:	0.025	0.048	0.070	0.020	0.030	0.023	0.031	***	0.032	***	0.027	0.027
1,1-Dichloroethane:	0.084	0.071	0.110	0.043	0.040	0.045	***	0.034	0.038	0.045	0.052	0.052
Chloroethane:	0.021	***	0.035	0.014	0.008	0.012	***	0.012	0.010	0.011	0.019	0.019
1,1,1-Trichloroethane:	0.460	0.300	0.360	0.180	0.120	0.130	0.330	0.140	0.150	0.110	0.190	0.190
Methylene Chloride:	***	***	***	***	***	***	***	***	***	***	***	***
Toluene:	0.057	0.013	0.005	0.013	0.007	***	0.012	0.011	0.010	0.017	0.018	0.018
Ethylbenzene:	0.012	0.019	***	0.012	0.007	***	0.024	0.008	***	0.011	0.015	0.015
m-Xylene:	0.038	0.023	***	0.016	0.011	***	0.010	0.013	0.009	0.022	0.025	0.025
o,p-Xylene:	0.013	0.016	***	0.010	0.007	***	0.016	0.007	0.009	0.010	0.011	0.011
Acetone:	***	***	***	***	***	***	***	***	***	***	***	***
Methylethylketone:	***	***	***	***	***	***	***	***	***	***	***	***
1,1-Dichloroethene:	0.010	0.008	***	***	***	***	***	***	***	***	***	***
1,2,1-Dichloroethene:	***	***	***	***	***	***	0.008	***	***	***	***	***
1,2-Dichloroethane:	***	***	***	***	***	***	***	***	***	***	***	***
Trichloroethene:	***	***	***	***	***	***	***	***	***	***	***	***
Benzene:	***	***	***	***	***	***	***	***	***	***	***	***
Chlorobenzene:	***	***	***	***	***	***	***	***	***	***	***	***
1,1,2-Trichloroethane:	***	***	***	***	***	***	***	***	***	***	***	***
Chloromethane:	***	***	***	***	***	***	***	***	***	***	***	***
Methyl Isobutyl Ketone:	***	***	***	***	***	***	***	***	***	***	***	***
Tetrachloroethene:	***	***	***	***	***	***	***	***	***	***	***	***

\*\*\*: Not Detected

Contaminant Data for Monitoring Well: R1 (in PPM)

	01/06/88	01/11/88	01/19/88	01/26/88	02/04/88	02/09/88	02/18/88	02/29/88	03/02/88	03/09/88	03/15/88	03/25/88
Tetrahydrofuran:	0.033	0.065	***	0.210	0.100	0.270	0.120	0.110	0.160	***	***	0.011
1,1-Dichloroethane:	0.044	0.055	***	0.080	0.073	0.110	0.110	0.061	0.031	0.075	0.042	0.040
Chloroethane:	0.013	0.022	***	0.036	0.022	0.038	0.028	0.012	0.005	***	0.006	***
1,1,1-Trichloroethane:	0.120	0.100	***	0.200	0.190	0.240	0.400	0.310	0.140	0.150	0.100	0.110
Methylene Chloride:	***	***	***	***	***	***	***	***	***	***	***	***
Toluene:	0.019	0.010	***	0.008	0.018	***	0.050	***	0.016	0.023	0.018	0.015
Ethylbenzene:	0.016	0.005	***	***	0.015	***	0.045	***	0.012	0.025	0.015	0.006
m-Xylene:	0.025	0.012	***	0.037	0.022	0.005	0.055	***	0.018	0.037	0.024	0.019
o,p-Xylene:	0.009	0.009	***	0.014	0.013	0.005	0.026	***	0.010	0.015	0.010	0.008
Acetone:	***	***	***	***	***	***	***	***	***	***	***	***
Methylethylketone:	***	***	***	***	***	***	***	***	***	***	***	***
1,1-Dichloroethene:	***	***	***	***	***	***	0.005	***	***	***	***	***
1,2,1-Dichloroethene:	***	***	***	***	***	***	***	***	***	***	***	***
1,2-Dichloroethane:	***	***	***	***	***	***	***	***	***	***	***	***
Trichloroethene:	***	***	***	***	***	***	***	***	***	***	***	***
Benzene:	***	***	***	***	***	***	***	***	***	***	***	***
Chlorobenzene:	***	***	***	***	***	***	***	***	***	***	***	***
1,1,2-Trichloroethane:	***	***	***	***	***	***	***	***	***	***	***	***
Chloromethane:	***	***	***	***	***	***	***	***	***	***	***	***
Methyl Isobutyl Ketone:	***	***	***	***	***	***	***	***	***	0.013	***	***
Tetrachloroethene:	***	***	***	***	***	***	***	***	***	***	***	***

\*\*\*: Not Detected

Contaminant Data for Monitoring Well: R1 (in PPM)

	03/28/88	04/08/88	04/15/88	04/22/88	04/25/88	05/05/88	06/02/88	07/05/88	08/01/88	08/01/88	09/15/88	10/05/88
Tetrahydrofuran:	0.053	0.035	0.025	***	0.077	0.035	0.059	0.042	0.028	0.055	0.038	0.110
1,1-Dichloroethane:	0.063	0.032	0.017	0.026	0.035	0.028	0.049	0.076	0.056	0.056	0.027	0.034
Chloroethane:	***	0.007	***	0.005	***	***	0.006	0.010	0.010	0.010	***	0.015
1,1,1-Trichloroethane:	0.200	0.100	0.071	0.110	0.140	0.135	0.190	0.130	0.071	0.071	0.021	0.014
Methylene Chloride:	***	***	***	***	***	***	***	***	***	***	***	***
Toluene:	0.031	0.018	0.010	0.011	0.006	0.010	0.020	0.012	0.015	0.015	0.005	0.005
Ethylbenzene:	0.045	0.008	0.007	0.012	0.006	0.006	0.014	***	0.012	0.012	0.005	0.005
m-Xylene:	0.053	0.008	0.013	0.019	0.015	0.012	0.021	0.011	0.019	0.019	0.006	0.008
o,p-Xylene:	0.020	0.013	0.006	0.007	0.007	0.007	0.008	0.006	***	***	0.005	0.005
Acetone:	***	***	***	***	***	***	***	***	***	***	***	***
Methylethylketone:	***	***	***	***	***	***	***	***	***	***	***	***
1,1-Dichloroethene:	***	***	***	***	***	***	***	***	***	***	***	***
1,2,1-Dichloroethene:	***	***	***	***	***	***	***	***	***	***	***	***
1,2-Dichloroethane:	***	***	***	***	***	***	***	***	***	***	***	***
Trichloroethene:	***	***	***	***	***	***	***	***	***	***	***	***
Benzene:	***	***	***	***	***	***	***	***	***	***	***	***
Chlorobenzene:	***	***	***	***	***	***	***	***	***	***	***	***
1,1,2-Trichloroethane:	***	***	***	***	***	***	***	***	***	***	***	***
Chloromethane:	***	***	***	***	***	***	***	***	***	***	***	***
Methyl Isobutyl Ketone:	***	***	***	***	***	***	***	***	***	***	***	***
Tetrachloroethene:	***	***	***	***	***	***	***	***	***	***	***	***

\*\*\*: Not Detected



## Contaminant Data for Monitoring Well: R1

(in PPM)

	11/01/88	12/01/88	01/03/89	02/08/89	03/01/89	04/06/89	05/02/89	06/02/89	07/07/89	09/18/89	10/02/89	11/06/89
Tetrahydrofuran:	0.025	0.096	***	0.034	0.080	0.140	0.120	0.720	0.110	0.043	0.047	0.340
1,1-Dichloroethane:	0.015	0.020	***	0.012	0.028	0.026	0.037	0.045	0.025	0.017	0.046	0.095
Chloroethane:	0.021	0.027	***	0.025	0.030	0.005	0.005	***	***	***	0.014	0.048
1,1,1-Trichloroethane:	0.005	0.012	***	0.007	0.025	0.025	0.040	0.039	0.032	0.014	0.019	0.120
Methylene Chloride:	***	***	***	***	***	0.065	***	***	***	***	***	***
Toluene:	***	0.006	***	***	0.007	0.007	0.007	0.005	0.005	***	***	0.013
Ethylbenzene:	***	0.002	***	***	0.005	***	***	0.005	0.005	***	***	***
m-Xylene:	***	0.006	***	***	0.006	0.007	***	***	0.005	***	***	0.034
o,p-Xylene:	***	0.004	***	***	***	0.005	***	***	0.005	***	***	***
Acetone:	***	***	***	***	***	***	***	***	***	***	***	0.023
Methylethylketone:	***	***	***	***	***	***	***	***	***	***	***	***
1,1-Dichloroethene:	***	***	***	***	***	***	***	***	***	***	***	***
1,2,1-Dichloroethene:	***	***	***	***	***	***	***	***	***	***	***	***
1,2-Dichloroethane:	***	***	***	***	***	***	***	***	***	***	***	***
Trichloroethene:	***	***	***	***	***	***	***	***	***	***	***	***
Benzene:	***	***	***	***	***	***	***	***	***	***	***	***
Chlorobenzene:	***	***	***	***	***	***	***	***	***	***	***	***
1,1,2-Trichloroethane:	***	***	***	***	***	***	***	***	***	***	***	***
Chloromethane:	***	***	***	***	***	***	***	***	***	***	***	***
Methyl Isobutyl Ketone:	***	***	***	***	***	***	***	***	***	***	***	***
Tetrachloroethene:	***	***	***	***	***	***	***	***	***	***	***	***

\*\*\*: Not Detected

Contaminant Data for Monitoring Well: R1 (in PPM)

	12/05/89	02/13/90	03/08/90	04/17/90	05/02/90	05/02/90	07/09/90	11/07/90	12/17/90	01/16/91	01/17/91	02/13/91
Tetrahydrofuran:	0.290	0.160	0.370	1.000	0.086	***	***	***	***	***	***	***
1,1-Dichloroethane:	0.063	0.014	0.170	0.086	0.098	***	0.048	0.055	0.046	0.118	0.095	0.050
Chloroethane:	***	0.020	0.035	***	0.025	***	***	0.011	0.026	0.070	0.065	0.018
1,1,1-Trichloroethane:	0.060	0.120	0.180	0.260	0.044	***	0.064	0.045	0.016	0.025	0.023	0.050
Methylene Chloride:	***	***	0.021	***	***	***	***	***	***	***	***	***
Toluene:	0.009	0.012	***	0.025	0.012	***	0.007	0.006	***	***	***	0.005
Ethylbenzene:	0.011	***	***	0.021	0.007	***	0.007	***	***	***	***	***
m-Xylene:	0.012	0.017	***	***	0.015	***	0.008	0.006	***	***	***	***
o,p-Xylene:	***	0.005	***	0.013	0.005	***	***	0.005	***	***	***	***
Acetone:	***	***	***	***	***	***	***	***	***	***	***	***
Methylethylketone:	***	***	***	***	***	0.025	***	***	***	***	***	***
1,1-Dichloroethene:	***	***	***	***	***	***	***	***	***	***	***	***
1,2,1-Dichloroethene:	***	***	***	***	***	***	***	***	***	***	***	***
1,2-Dichloroethane:	***	***	***	***	***	***	***	***	***	***	***	***
Trichloroethene:	***	***	***	***	***	***	***	***	***	***	***	***
Benzene:	***	***	***	***	***	***	***	***	***	***	***	***
Chlorobenzene:	***	***	***	***	***	***	***	***	***	***	***	***
1,1,2-Trichloroethane:	***	***	***	***	***	***	***	***	***	***	***	***
Chloromethane:	***	***	***	***	***	***	***	***	***	***	***	***
Methyl Isobutyl Ketone:	***	***	***	***	***	***	***	***	***	***	***	***
Tetrachloroethene:	***	***	***	***	***	***	***	***	***	***	***	***

\*\*\*: Not Detected

## Contaminant Data for Monitoring Well: R1

(in PPM)

03/06/91

Tetrahydrofuran:	***
1,1-Dichloroethane:	0.045
Chloroethane:	0.021
1,1,1-Trichloroethane:	0.065
Methylene Chloride:	***
Toluene:	0.009
Ethylbenzene:	***
m-Xylene:	0.013
o,p-Xylene:	0.005
Acetone:	***
Methylethylketone:	***
1,1-Dichloroethene:	***
1,2,1-Dichloroethene:	***
1,2-Dichloroethane:	***
Trichloroethene:	***
Benzene:	***
Chlorobenzene:	***
1,1,2-Trichloroethane:	***
Chloromethane:	***
Methyl Isobutyl Ketone:	***
Tetrachloroethene:	***

\*\*\*: Not Detected



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION I

J.F. KENNEDY FEDERAL BUILDING, BOSTON, MASSACHUSETTS 02203-2211

November 12, 1991

Mr. Michael Robinette  
Waste Management Division  
NH Department of Environmental  
Services  
6 Hazen Drive  
Concord, NH 03301-6509

Dear Mr. <sup>mike</sup>Robinette:

Thank you for the three pre-SARA Site Inspections that were recently received. This leaves only two pre-SARA SIs to be completed in New Hampshire by the December 31, 1991 deadline.

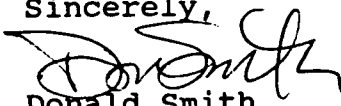
K.J.Quinn - Draft SI has been received and commented on.  
TRC is scheduled to complete the final report  
12/11.

Charlestown Dump - Original schedule called for completion  
June 30, 1991.

I would like to receive confirmation from you that the State will complete the Charlestown Dump SI and submit it to EPA before the December 31, 1991 deadline.

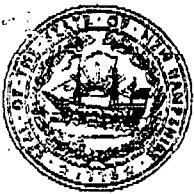
Please contact me at (617) 573-9648 if you have any questions.

Sincerely,

  
Donald Smith  
Site Assessment Program

cc: NH Files  
CERCLIS (2)





ROBERT W. VARNEY  
COMMISSIONER

PHILIP J. O'BRIEN, Ph.D.  
DIRECTOR

MICHAEL A. SILLS, Ph.D., P.E.  
CHIEF ENGINEER

State of New Hampshire  
DEPARTMENT OF ENVIRONMENTAL SERVICES  
WASTE MANAGEMENT DIVISION

6 Hazen Drive, Concord, NH 03301-6509

603-271-2900

TTY/TDD 225-4033

November 8, 1991

Seabrook  
WASTE MANAGEMENT COUNCIL

G. BRADLEY RICHARDS, Chairman  
ROBERT WHEELER, Vice-Chairman  
WILLIAM AENOLD  
ROBERT BURROWS  
T. TAYLOR FIOHMY, Ph.D.  
VIRGINIA O'BRIEN IRWIN  
WILLIAM JENNESS  
JOHN L'VALLEE  
JOHN LECRAW  
FREDERICK MCGARRY  
JOHN OSGOOD  
LORRAINE SANDER  
GAIL THERRIAULT

Mr. Donald Smith  
Superfund Support Section (HSS-7)  
USEPA, Waste Management Division  
JFK Federal Building  
Boston, MA 02203

Re: COMMENTS ON K.J. QUINN DRAFT SSI,  
WORK ASSIGNMENT #06-1JZZ, PROJECT #1-636-007-0-1J41

Dear Mr. Smith:

Enclosed are the comments of the NHDES-WMEB on the subject report.

General: It would be appreciated if the WMEB pre-remedial section were notified when these site reconnaissances are scheduled. It has proven very helpful in the past to have had the opportunity to view the site, particularly when reviewing the reports that are produced.

- Two copies of draft documents would also be helpful to facilitate state reviews. Please submit two copies of the SSI.
- Figure 2. R-1 should be located on this map.
- Page 9. The RCRA Inspection Report was done by the NHBSWM
- Page 11. The discussion of the Seabrook wellfield should note their relationship to the Gruhn Engine Repair site on route 107; CERCLIS #NHD986469195.
- Page 19. The first full paragraph states that MW-11 "consistently contained high levels of contaminants..." and the second full paragraph states..." (MW-11,-10 and-2) contained very little contamination."
- Page 21. The sustained HNU readings from the sewer grate near the office building seem to indicate the need for additional investigation of this area.

Letter to Donald Smith, USEPA, Region I  
Re: Comments on K.J. Quinn Draft SSI  
November 8, 1991  
Page 2

- A very brief review of the NHDES-WSPCD files indicates that a state Groundwater Permit was approved in June 1982 for the discharge of boiler blowdown to groundwater and an Emergency Groundwater Permit was issued in September 1983 for the discharge of treated groundwater. In July 1991, NHDES-WSPCD approved the shutdown of the stripper for 90 days. After analyzing the groundwater after the 90 day shutdown, the stripper may need to be re-started if contaminant levels increase above MCL's.

Please reiterate to the FIT/ARC's contractors that they must contact both Ariel Parent of NHDES-WMD at (603)271-2919 and Pat Wilcox of NHDES-WSPCD at (603)271-3578 to insure that they review all the state's relevant files when doing research here. It is also important to send a copy of the USGS topo map with the area in question circled.

Sincerely,



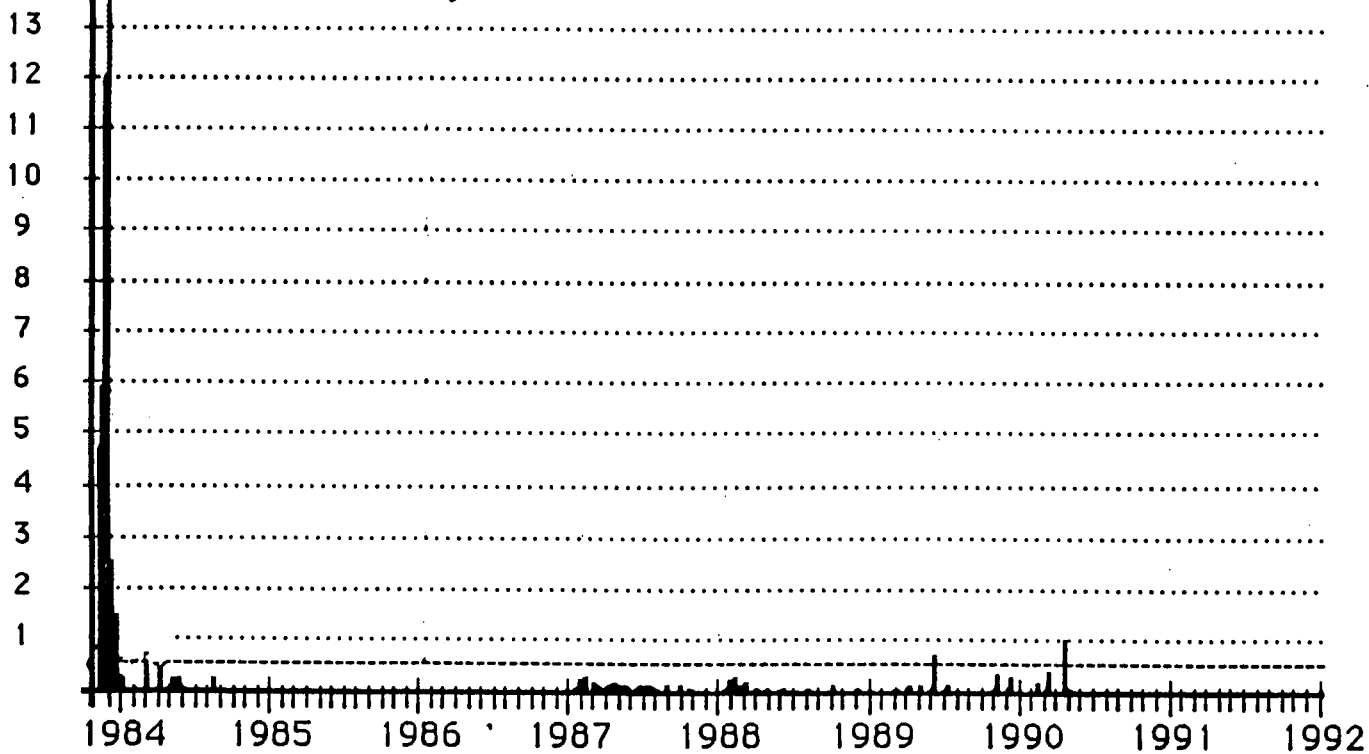
Charles Berube  
MSCA Coordinator

CB/jd/4908

cc: Carl W. Baxter, P.E., Administrator, NHDES-WMEB  
Michael J. Robinette, P.G., NHDES-WMEB

31ppm

Plot of Tetrahydrofuran: for Well R1



MEMORANDUM

Don - FYI

DATE: February 11, 1992

SUBJ: ARCS Pre-SARA SI Start Dates

FROM: Sharon M. Hayes *AmH*  
ARCS WAM

TO: Nancy Smith  
MA Site Assessment Manager

All of the Pre-SARA SIs completed by Roy F. Weston and TRC have had SI start dates entered into CERCLIS except for the following sites for which there is an SI completion date in CERCLIS which is earlier than the proposed SI start dates as indicated on the attached letters from the contractors:

Roy F. Weston:

1. Stanley Woolen Mills
2. National Steel Service Center
3. Plainville Sanitary Landfill
4. Burst Range and Valve
5. Rhubarb Farm
6. Cohen

TRC:

1. H & M Drum
2. Silva Property
3. Cass ND Co.
4. George Lay Property
5. J & G Auto Salvage
6. Achusnet Landfill
7. Achusnet Co./Rubber Division

cc: SAG



**TRC Companies, Inc.**

c/o Alliance Technologies Corporation  
Boon Mins South • Foot of John Street  
Lowell, Massachusetts 01852  
Tel: (508) 970-5600

**TRC**

January 17, 1992

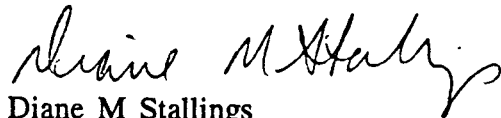
Ms. Sharon Hayes  
Superfund Support Section (HSS-CAN7)  
U.S. EPA Waste Management Division  
JFK Federal Building  
Boston, MA 02203-2211

Subject: Contract No. 68-W9-0033, W.A. No. 06-1JZZ  
Pre-SARA SI Start Dates

Dear Sharon:

As you requested, enclosed is a list pre-SARA SSI sites and their respective start dates. If you need additional information concerning these sites please let me know.

Sincerely,



Diane M Stallings  
TRCC Work Assignment Manager

## Pre-SARA SSI Site Summary

14-Jan-92

Site Name	CERCLIS Number	City	WA Start
✓ Falmouth Solid Waste Septage 00635	MAD 980503429	Falmouth	25-May-90
Dumping in Power Line Row 00800	MAD 980909584	Halifax	08-Jun-90
Mann Brook Swamp 00812	MAD 980914584	Hanover	25-May-90
Harwich Sanitary Landfill 00636	MAD 980503494	Harwich	08-Jun-90
Marshfield Town Waste Disposal 00646	MAD 980503627	Marshfield	01-Jun-90
Orleans Sanitary Landfill 00650	MAD 980503809	Orleans	01-Jun-90
Sandwich Old Septage Site 00649	MAD 980503791	Sandwich	15-Jun-90
Wrentham Town Dump 00724	MAD 980524458	Wrentham	15-Jun-90
Yarmouth Landfill 00666	MAD 980504179	Yarmouth	22-Jun-90
Worcester Spinning and Finishing Co 00347	MAD 000847996	Leicester	25-Jul-90
Townsend Highway Dept. Facility 00929	MAD 981074834	Townsend	25-Jul-90
Pleasant Trucking 00528	MAD 053446415	Marlborough	01-Aug-90
Data Terminals Systems Inc. 00520	MAD 049433964	Maynard	08-Aug-90
Mass Oxygen Equipment Co. 00452	MAD 001767748	Westborough	15-Aug-90
Charlton Woolen Co. 00422	MAD 001126549	Charlton	22-Aug-90
E G & G Bionomics 00588	MAD 080036163	Wareham	05-Sep-90
Harris Oil 02141	MAD 985278472	Milbury	12-Sep-90
Indian Head Ski Area 00787	MAD 980909836	Pepperell	12-Sep-90
Worcester Landfill 00598	MAD 087883955	Worcester	19-Sep-90
The Ledge 00921	MAD 981069974	Dartmouth	26-Sep-90
Former Mansfield Bleachery 01930	MAD 985276138	Foxborough	19-Sep-90
Mansfield Town Landfill 00639	MAD 980503593	Mansfield	19-Sep-90
Grant Property 00431	MAD 981203029	Mansfield	26-Sep-90
Maynard Municipal Landfill 00766	MAD 980906903	Maynard	26-Sep-90
Raytheon Co. Equip Div 00949	MAD 990685554	Wayland	12-Dec-90
Norfolk Conveyor Div. 00466	MAD 005380613	Cohasset	03-Oct-90
Wells Metals Finishing 00498	MAD 037683521	Dracut	03-Oct-90
Lallas Buick 00786	MAD 980909378	Lowell	29-Jan-91
Casco Chemical 00463	MAD 002577617	Beverly	29-Jan-91
Airport Septic System 00909	MAD 980169198	Beverly	29-Jan-91
H & M Drum 00723	MAD 980524185	Freetown	05-Feb-91
- Silva Property 00653	MAD 985297662	Rehoboth	05-Feb-91
- Cass ND Co. 00419	MAD 001125921	Orange	05-Feb-91
- George Lay Property 00716	MAD 980909106	Merrimac	05-Feb-91
- J & G Auto Salvage 00494	MAD 030819445	Middleboro	05-Feb-91
- Acushnet Landfill 00853	MAD 980916993	Acushnet	12-Apr-91
- Acushnet Co./Rubber Division 00924	MAD 981070006	New Bedford	12-Apr-91
Acushnet Titleist Golf Division 00374	MAD 001202517	New Bedford	12-Apr-91
Eastman Gelatine (Eastman Kodak) 00461	MAD 002207546	Peabody	12-Apr-91
Quinn K.J. and Co., Inc. 1103	NHD 048722466	Seabrook	02-May-91

\* SI completion dates earlier than the indicated SI start dates proposed to be entered.

NOTE: KJ Quinn actually had an earlier SI start date under HUS/FIT of 8/90 (TOD# 9008-08)

This TOD was cancelled due to CDI issues.



Seabrook

January 2, 1992

Mr. Don Smith  
State Coordinator  
U.S.E.P.A.  
Region 1  
90 Canal Street  
Boston, MA 02203-2211


Subject: TRC Companies, Inc.  
Final Screening Site Inspection Report  
K. J. Quinn & Co., Inc.  
Seabrook, NH  
CERCLIS No. NHD048722466

Dear Mr. Smith:

We have received our copy of the Final Screening Site Inspection Report for K.J.Quinn and we are currently reviewing the comments, conclusions and recommendations. We have identified what we believe to be material inaccuracies in this report and, after further review, we will be in touch with you to request a meeting to discuss our concerns with you.

Thank you in advance for your consideration.

Very truly yours,  
K.J. QUINN & CO., INC.

  
Samuel P. M. Gray  
Vice President

**K. J. QUINN & CO., INC.**

COATING, ADHESIVE AND POLYMER SPECIALISTS/SINCE 1880

135 FOLLY MILL RD · SEABROOK, NH 03874-0158 · TEL. (603) 474-7177 · TELEX 200203 · FAX (603) 474-9170  
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION I

J.F. KENNEDY FEDERAL BUILDING, BOSTON, MASSACHUSETTS 02203-2211

Seabrook

November 26, 1991

Mr. Harish Panchal  
Bureau of Waste Site Cleanup  
Department of Environmental Protection  
One Winter Street, Fifth Floor  
Boston, MA 02108

Dear Harish:

Enclosed is a copy of a final Site Inspection report for the K.J. Quinn and Company, Inc. facility in Seabrook, New Hampshire (NHD048722466). This report is being provided to you for your information since this facility spans state lines; a portion of the site lies within the Town of Salisbury, Massachusetts.

If you have any questions or comments, I may be reached at (617) 573-9697, or you may call Mr. Donald Smith, the New Hampshire Site Assessment Manager, at (617) 573-9648.

Sincerely,

Nancy Smith  
MA Site Assessment Manager

Enclosure

cc: Ida Babroudi, DEP NERO (without enclosure)



**TRC Companies, Inc.**

c/o Alliance Technologies Corporation  
Boott Mills South • Foot of John Street  
Lowell, Massachusetts 01852  
Tel: (508) 970-5600



November 20, 1991

Ms. Sharon Hayes  
Superfund Support Section (HSS-CAN7)  
U.S. EPA Waste Management Division  
JFK Federal Building  
Boston, MA 02203

Subject: Final Screening Site Inspection  
K.J. Quinn & Co., Inc.  
Seabrook, NH  
W.A. No. 06-1JZZ  
Reference No. 1-636-007-0-1J41  
CERCLIS No. NHD048722466

Dear Sharon:

Enclosed are two copies of the Final Screening Site Inspection report for K.J. Quinn & Co., Inc. in Seabrook, NH. Draft report comments submitted by the EPA and the State have been incorporated. Copies of the final report have been sent to the state contact under separate cover.

This Final Screening Site Inspection was prepared in response to Contract No. 68-W9-0033, Work Assignment 06-1JZZ. An Acknowledgement of Completion will follow shortly documenting the completion of work for this site.

If you have any questions, please do not hesitate to call.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Paul A. Hughes', is written over the typed name.

Paul A. Hughes  
ARCS Program Manager  
PAH:ko/ARCS0884

Enclosure

cc: D. Kelley (w/o enclosure)  
J. Nemzer (w/o enclosure)  
D. Smith (w/o enclosure)

TRC Companies, Inc.

c/o Alliance Technologies Corporation  
Boott Mills South • Foot of John Street  
Lowell, Massachusetts 01852  
Tel: (508) 970-5600



November 20, 1991

Mr. Charles Berube  
Pre-Remedial Section  
Department of Environmental Services  
Waste Management Division  
Health & Welfare Building  
6 Hazen Drive  
Concord, NH 03301-2900

Subject: Final Screening Site Inspection  
K.J. Quinn & Co., Inc.  
Seabrook, NH  
W.A. No. 06-1JZZ  
Reference No. 1-636-007-0-1J41  
CERCLIS No. NHD048722466

Dear Mr. Berube:

Enclosed is a copy of the Final Screening Site Inspection report for K.J. Quinn & Co., Inc. in Seabrook, MA. This final report has been revised in accordance with comments received from the EPA and the State.

If you have any questions, please do not hesitate to call.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Paul A. Hughes', is written over the typed name.

Paul A. Hughes  
ARCS Program Manager

PAH:ko/ARCS0885

Enclosure

cc: S. Hayes/EPA (w/o enclosure)  
D. Kelley/EPA (w/o enclosure)  
J. Nemzer/EPA (w/o enclosure)  
D. Smith/EPA (w/o enclosure)